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L1	4	10/791244	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:41
L2	5	channel adj estimat\$3 same past same future same center	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:05
L3	9	channel adj estimat\$3 and past same future same center	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:10
L4	4228	375/346	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:55
L5	2131	375/285	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:55
L6	2561	455/296	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:55
L7	796	327/310	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:55

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L8	361	327/384	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:55
L9	759	327/551	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:56
L10	241	channel adj estimat\$3 and past same future	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:56
L11	32	10 and 4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:56
L12	13	10 and 5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:02
L13	3	10 and 6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:00
L14	1	10 and 7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:00

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L15	1	10 and 8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:00
L16	1	10 and 9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:56
L17	1	(channel adj estimat\$3 and past same future same center).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:00
L18	35	channel adj estimat\$3 with past with future	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:08
L21	1	channel adj estimat\$3 with past with future and minimum adj mean adj square adj error	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:09
L22	3	channel adj estimat\$3 and past with future with (center or present or actual)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:11
L23	1	channel adj estimat\$3 with matrix and past with future with (center or present or actual)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:11

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S1	1	"10/396118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/27 08:40
S2	9	channel adj estimat\$3 with updat\$3 with (minimum adj mean adj squareS1 adj error MMSE) same channel near estimat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:46
S3	15	(past previous) with channel adj estimat\$4 and (middle center present) with channel adj estimat\$3 and (future next) with channel adj estimat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:47
S4	167	(past previous) with channel adj estimat\$4 and (future next) with channel adj estimat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:47
S5	91	(past previous) with channel adj estimat\$4 same (future next) with channel adj estimat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:47
S8	0	S5 and S2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:48
S9	11	updat\$3 with (minimum adj mean adj squareS1 adj error MMSE) same channel near estimat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:48

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S15	2	(past previous) with channel adj estimat\$4 and (middle center present) with channel adj estimat\$3 and (future next) with channel adj estimat\$3 and (minimum adj mean adj squares adj error MMSE) same channel near estimat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:52
S16	4	(US-20030210752-\$ or US-20020136158-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:52

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H, using the **future** and **past** portions of the channel response **matrix**, (step 72). The complexity of processing the **channel estimate** varies for each ...

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[PDF] A bit-streaming, pipelined multiuser detector for wireless ...

bits receive interference from the **past** or **future** overlapping sym- of the interfering users and the desired user. The **center matrix** ...

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[PDF] A Stochastic Subspace Algorithm For Blind Channel Identification ...

by IMEC (Flemish Interuniversity Microelectronics **Center**) and. IUAP P4-02. (1997-2001):

.... the columns of the block Hankel **matrix** of **past** outputs Y_p , ...

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inversion step is avoided when updating the **channel estimate**. for Mobile

Communication: **Past**, Present and **Future**," IEEE Communications Magazine, ...

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Reduced complexity sliding window based equalizer - US Patent 7042967

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Baseband processor with look-ahead parameter estimation ...

In the present invention, **past**, current, and possibly **future** symbols would be hypothesized, and there would be a **channel estimate** associated with each. ...

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stands. for the partial correlation between the **future** bits. of the interfering users and the desired user. The. **center matrix** ...

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the columns of the block Hankel **matrix** of **past** outputs ... Similarly we project the **past** outputs onto the **future** out- the **channel estimate**: ...

<ftp://ftp.esat.kuleuven.ac.be/pub/SISTA/vandaele/reports/98-76.ps.Z> -

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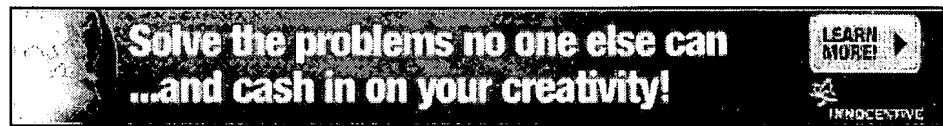
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Sud, Seema , May 2002
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McKinstry, David R. , Jul 2003
...him and I believe his guidance has well prepared me for the **future**. I also thank Dr.

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...parameters can be tuned to give a **minimum meansquare error**. The second DFE is derived...equations for an optimum realizable **minimum meansquare error** DFE are obtained. The zeroforcing...obtaining the parameters of a **minimum meansquare error** DFE and present the conditions...
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...him and I believe his guidance has well prepared me for the **future**. I also thank Dr. Jeffrey Reed and Dr. Dennis Sweeney for...214 9.1 Summary and **Future** Work...bicones, NLOS... 92 Figure 4-1. 1 GHz bandwidth pulse with **center** frequency 4 GHz 96 Figure...
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Otnes, Roald , Jan 2002
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Mostafa, Raqibul , Apr 2003
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☐ **11. Reduced rank adaptive filtering applied to interference mitigation in wideband CDMA systems**

1971- Sud, Seema, , Jan 2002

...research presented here shows how **minimum mean square error** (MMSE) receivers implemented via...18 2.3.2 **Minimum Mean Square Error** (MMSE): The Wiener Filter...Requirements 44 4 **Minimum Mean Square Error** (MMSE)/Rake Receivers 47 4.1 The...

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☐ **13. Layered space-time equalization for wireless MIMO systems**

Zhu, Xu / Murch, Ross David, article, Jun 2002

...Murch2 , Senior Member, IEEE **Center** for Wireless Information...high-speed data transmission in **future** wireless communications...best data streams in the **minimum mean square error** (MMSE) sense are selected...are referred to as the "**past**" signals, and are expressed...matrix associated with the "**past**" BmI signals, which is...[^]][[~ iii iii FBVA **past** HH zzy sVxWs...

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☐ **18. A Rapid Prototype of an IEEE802.11a Synchronizer**

Olsson, Mattias, Jan 2002

...MAC Medium-Access Controller ML Maximum Likelihood MMSE **Minimum-Mean-Square Error** NLS Non-Linear Squares OFDM Orthogonal Frequency Division...51 6
Conclusions 53 6.1 Ideas for **future** work 54...sampling of the spectrum is no longer performed at the **center** of the sub carriers. As it can be seen from (2.6) this...

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LIN, Lang / CHUANG, Justin C. / LI, Ye (Geoffrey) (AT & T CORP.), *PATENT COOPERATION TREATY APPLICATION*, Aug 2001

patno:WO0158105

...c), the corresponding **channel estimate** $H(c)$ can be found. Consequently...7) to obtain initial **channel estimate** explicitly without resorting...time instant n , given a **channel estimate** $f_{l,n}$ initially obtained...designed to achieve the **minimum mean square error** (NMSE) of estimation...

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- ☐ **21. METHOD AND APPARATUS FOR A MIMO-OFDM COMMUNICATION SYSTEM**
MEDVEDEV, Irina (QUALCOMM INCORPORATED), PATENT COOPERATION TREATY APPLICATION, Jul 2003
patno:WO03058871
...from the base station, and an "active" terminal is one that desires downlink and/or uplink data transmission in an upcoming or **future** time slot. Active terminals may include terminals that are currently communicating. [1026] For the example shown in FIG. 1...
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CHAN, Albert M. / WORNELL, Gregory W. (MASSACHUSETTS INSTITUTE OF TECHNOLOGY), PATENT COOPERATION TREATY APPLICATION, Sep 2001
patno:WO0171996
...affects symbols in the **past**. Postcursor ISI is caused...affects symbols in the **future**. ISI can lead to severe...enhancement, even when **minimum mean-square error** (MMSE) design criteria...conventional system employing a **minimum mean-square error** DFE on severe -ISI channels...equalizers, including the **minimum mean-square error** decision-feedback equalizer...
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HOWARD, Steven J. (QUALCOMM INCORPORATED), PATENT COOPERATION TREATY APPLICATION, Nov. 2002
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...estimates the channel response for "active"; terminals, which are terminals desiring to transmit data during an upcoming or a **future** transmission interval. Active terminals may include terminals that are currently transmitting. The channel estimates may be...
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24. [E \[PS-318K\]](#)
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...nite number of **past** and **future** data symbols is...on non{adaptive **channel{estimate**
{based methods...proposed non{adaptive **channel{estimate**{based procedure...that
achieves the **minimum mean square error** : MMSE UTC = 1...
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...parameters can be tuned to give a **minimum mean-square error**. The second DFE is
de- rived under...equations for an optimum realizable **minimum mean-square error**
DFE are obtained. The zero-forcing...obtaining the param- eters of a **minimum mean-**
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...Al-Dhahir is now with GE R&D **Center** in Schenectady, NY 12309...on the innite{length
minimum{mean{square{error decision feedback equalizer...4)) that consists of **past**
symbols $x_k, 1:k$ (assumed...correctly detected) and N_f **future** symbols $x_{k+N_f}, 1:k+1$
that...e 0 (16) resulting in a **minimum mean square error** (MMSE) of : MMSE = 1 e...
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...123 5.8 Summary 126 6 Conclusion and
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